FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE ATTORNEY'S DOCKET NI IMPED

TRANSMITTAL LETTER TO THE LINE.

# DESIGNATED/ELECTED OFFICE (DO/EO/US)

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

	JUN	ICERNING A SUBMISS	SION UNDER 35 U.S.C. 371	10/5/0077					
INTERNATIONAL APPLICATION NO. PCT/FI2004/000674			INTERNATIONAL FILING DATE 12 November 2004	PRIORITY DATE CLAIMED 17 November 2003					
TITLE	TOTAL DE INVENTION								
Pulse-Based Communication									
ĄPPL	APPLICANT(S) FOR DO/EO/US								
Jukka REUNAMAKE, Arto PALIN									
Applio	cant h	at herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1.	$\boxtimes$	This is a FIRST submission of iter	ms concerning a submission under 35 U.S.C. 3	71.					
2.		This is a SECOND or SUBSEQU	ENT submission of items concerning a submiss	sion under 35 U.S.C. 371.					
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.							
4.		The US has been elected (Article	31).						
5.	$\boxtimes$	A copy of the International Applica	ation as filed (35 U.S.C. 371 (c)(2))						
		a. 🛛 is attached hereto (requ	ired only if not communicated by the Internatio	nal Bureau).					
_		b.   has been communicated	d by the International Bureau.						
•		c.  is not required, as the a	pplication was filed in the United States Receive	ing Office (RO/US).					
6.		An English language translation o	f the International Application as filed (35 U.S.0	C. 371(c)(2)).					
		a.  is attached hereto.							
		b.  has been previously sub	omitted under 35 U.S.C. 154(d)(4).						
7.		Amendments to the claims of the	International Application under PCT Article 19	(35 U.S.C. 371 (c)(3))					
		a.   are attached hereto (req	uired only if not communicated by the Internation	onal Bureau).					
		b.  have been communicate	ed by the International Bureau.	•					
		c.  have not been made; ho	owever, the time limit for making such amendme	ents has NOT expired.					
		d.   have not been made and	d will not be made.						
8.		An English language translation o	f the amendments to the claims under PCT Art	icle 19 (35 U.S.C. 371(c)(3)).					
9.	⋈	An oath or declaration of the inver							
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).							
11.	$\boxtimes$	A copy of the International Prelimi	inary Examination Report (PCT/IPEA/409).						
12.	$\boxtimes$	A copy of the International Search	Report (PCT/ISA/210).						
lte	ems 1	3 to 23 below concern document	t(s) or information included:						
13.	$\boxtimes$	An Information Disclosure Staten	nent under 37 CFR 1.97 and 1.98.						
14.	$\boxtimes$	An assignment document for reco	ording. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.					
15.	$\boxtimes$	A FIRST preliminary amendment.							
16.		A SECOND or SUBSEQUENT preliminary amendment.							
17.		A substitute specification.							
18.		A power of attorney and/or change of address letter.							
19.		A computer-readable form of the	sequence listing in accordance with PCT Rule 1	13ter.2 and 37 CFR 1.821 - 1.825.					
20.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
21.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).							
<b>22</b> .	$\boxtimes$	Express Mail Label No. EV	836 041 879 US						

# IAP12 Rec'd PCT/PTO 09 MAY 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLI	CATION NO (if known, so	ee 37 CFR 1.		INTERNATIONAL APPLICATION NO. PCT/FI2004/000674		ATTORNEY'S DOCKET NUMBER 868A.0034.U1(US)	
	19/2/00	5/2	PC1/F1200	J4/U(	JUO / 4	808A.0034.0	01(08)
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Finn	ish Search Report						
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	owing fees have been					CALCULATIONS	PTO USE
24. ⊠ Ba	sic national fee				\$300	\$ \$300.00	
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prepared by	IPEA/US indicates a	Il claims sat	tisfy provisions of PCT Art	y exa icle	\$0	\$ \$200.00	
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☐ Addition seguen	nal fee for specification	n and draw ce with 37 0	rings filed in paper over 10 CFR 1.821(c) or (e) or com R 1.492(j)). heets of paper or fraction t	0 she	ets (excluding r program		
listing in The fee	n an electronic mediu i is <b>\$250</b> for each add	m) (37 CFR litional 50 sl	R 1.492(j)). heets of paper or fraction t	here	of.		
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Surcharge of declaration a	f \$130.00 for furnishing	ng any of th	e search fee, examination of the national stage (37 (	fee, CFR 1	or the oath or 1.492(h)).	\$	-
CLAIM		T	NUMBER EXTRA		RATE		
Total claims	20	- 20 =	0	x	\$50.00	\$ \$0.00	
Independent	claims 4	- 3=	1	x	\$200.00	\$ \$200.00	
MULTIPLE I	DEPENDENT CLAIM	S (if applica	ıble)	+	\$360.00	\$ \$0.00	
		TC	OTAL OF ABOVE CA	LCI	JLATIONS =	\$ \$1,100.00	
☐ Applica 1/2.	nt claims small entity	status. See	37 CFR 1.27. Fees above	e are	reduced by	\$ \$0.00	
				S	UBTOTAL =	\$ \$1,100.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$ \$0.00	,
TOTAL NATIONAL FEE =						\$ \$1,100.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be						\$ \$40.00	
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +  TOTAL FEES ENCLOSED =							
TOTAL FEES ENCLOSED =							
						Amount to be	\$
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10/578695

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a. 🛚	A check in the amount of \$to 6	cover the above fees is enclosed.				
ь. 🗆	Please charge my Deposit Account No.  A duplicate copy of this sheet is enclosed.	in the amount of \$	to cover the above fees.			
c. 🛚	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No50-1924 A duplicate copy of this sheet is enclosed.					
d. 🗀	Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card</b> information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 SFR 4.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SEND	ALL CORRESPONDENCE TO:	Hami	2.			
Custon	ner No. 29683	SIGNATURE	June			
	gton & Smith, LLP arch Drive	Harry F. Smith				
	a, CT 06484-6212	NAME	NAME			
	25-9400	32,493	32,493			
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# 10/578695

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# Express Mail No. EV 836 041 879 US IN THE U.S. PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of: Applicant: Reunamäki et al.

U.S. Serial No.:

International Application No.: PCT/FI2004/000674

International Filing Date: 12 November 2004

Title: Pulse-Based Communication

Attorney Docket No.: 868A.0034.U1(US)

#### Certificate of Mailing

I hereby certify that the following correspondence:

Transmittal Letter to U.S. Designated/Elected Office

Preliminary Amendment

WO 2005/048478 A1 published application

Declaration and Power of Attorney

Assignment and Form PTO-1595

Information Disclosure Statement with PTO-1449 and references

International Search Report, Finnish Search Report and

International Preliminary Report on Patentability

Check for \$ 1140.00

Self addressed stamped post card

Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Mail Stop PCT.

Date: May 9, 2006

Debrá Pongetti